

MATULAY, K., Prof., MUDr.; KLUKAN, B., MUDr.; HAPL, F., MUDr.

Laboratory findings in pneumoencephalography; characteristics of
formative elements. Cesk. neur. 19 no.2:125-129 May 56.

1. Statna liecova psychiatricka, Pesinek.
(BRAIN, radiography,
pneumoencephalography, laboratory aspects (Cs))

Activity No. 25

EXCERPTA MEDICA Sec 8 Vol 13/5 Neurology May 60

2433. ELECTROENCEPHALOGRAPHIC FINDINGS IN NEUROSYPHILIS.

Elektroenzefalografické nálezy při luesu nerváv - Matulay K. and Klukan R. - BRATISL. LEK. LISTY 1959, 39(1)/12 (721-730) Illus. 4
Ninety EEGs in 71 patients suffering from various forms of neurosyphilis were recorded. No findings characteristic for neurosyphilis were found. In 11 cases the record was normal, in 28 cases indefinite, in 42 cases definitely pathological. The most frequent disorders were: interhemispherical asymmetry, slow waves, spikes, low amplitude, and absence of alpha activity. The localization of these findings was mostly in the frontal and frontotemporal regions. In hallucinations and illusions, the percentage of pathological findings was increased. Persistent pathological signs in the EEG record are considered to be a serious prognostic sign.

Cernáček - Bratislava

87456

8/057/60/030/012/003/011
B019/B056

26.231/

AUTHORS:

Klukhikh, V. A., Zavarin, D. Ya., Komar, Ye. G.,
Larionov, B. A., Monoszon, M. A., Skotnikov, V. V., and
Stolov, A. M.

TITLE:

An Investigation of the Electric and Magnetic Discharge
Characteristics of "Al'fa" Research Installation

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,
pp. 1404 - 1414

TEXT: The authors studied the electric and magnetic discharge characteristics under single-period conditions. The total discharge current is measured by means of a Rogovskiy girdle, having the shape of a spiral made of nichrome. The signal was integrated in an RC element, fed to one of the two channels of a double-beam oscilloscope. In a similar manner, the field strength of the rotational field was measured. According to voltage and current oscillograms the mean resistance of the plasma column and the energy generated in it were calculated, a constant inductivity of the discharge coil being assumed. Accordingly, the

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An Investigation of the Electric and
Magnetic Discharge Characteristics of
"Al'fa" Research Installation

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B019/B056

X

discharge column has an inductivity of $(2\text{-}3)\cdot 10^{-6}$ henries. Furthermore, an electron- and ion temperature of about $40\cdot 10^6$ K was obtained with a pressure of $2\cdot 10^{-4}$ mm Hg and a discharge energy of about 100 kilojoules. The distribution of the magnetic field over the cross section of the chamber was determined with probes. The results obtained are graphically represented in Fig.9. It was found that the electric current lines in the discharge are of helical character similar to the shape of the magnetic field, which leads to an increase of the longitudinal magnetic flux in the chamber. In order to conserve current constancy, it is necessary that rotational currents be induced in the walls of the outer chamber. This leads to a change in the field direction of the longitudinal magnetic field in the exterior discharge ranges and in the space between outer and inner chamber. The already mentioned increase of the field strength of the longitudinal magnetic field corresponds to a maximum azimuthal current in the plasma of $(2\text{-}2.5)\cdot 10^6$ a. Exactly this current must be induced in the walls of

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An Investigation of the Electric and
Magnetic Discharge Characteristics of
"Al'fa" Research Installation

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the outer chamber. From an analysis of the distribution curves of the magnetic fields and the discharge currents, it is found that the density vector of the electric current has a direction over the total discharge cross section, which nearly agrees with the direction of the magnetic field. Further, some experimental conditions were determined, under which the discharge current in the outer regions of discharge has a direction inverse to the discharge current in the inner regions. There are 11 figures, 1 table, and 6 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy
apparatury (Scientific Research Institute of Electro-
physical Apparatus)

SUBMITTED: July 15, 1960

X
20

25

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B019/B056

Legend to Fig.9: 1) and 2): Internal and external side. 3) H in oe,
J in a/cm².

Card 5/5

KLUKOWSKI, ANTONI

POLAND/Chemical Technology. Chemical Products
and Their Applications. Fats and Oils.
Waxes. Soaps and Detergents. Flotation
Agents.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21099

Author : Klukowski, Antoni

Inst :

Title : The American Fat Industry.

Orig Pub : Przem. spozywczy, 1958, 12, No 6, 221-224

Abstract : A description is given of the construction
and working of several kinds of continuous-
process equipment in wide use in the American
fat reprocessing and fat rendering plants,
as well as several aspects of the organiza-
tion and economics of production. -- M.
Zemlyanukhina

Card : 1/1

KLUMBIS, I.A., Cand Med Sci -- (disc) "Certain problems of the
pathogenesis and clinic of an acute cerebro-vascular trauma."
Kaunas, 1952. 29 pp (Min of Health Lithuanian SSR, Kaunas State
Med Inst). 200 copies (EL39-51, 107)

79

KLUMBYS, I., med. m. kand.

Apropos of the development of neurosurgery in Lithuania.
Sveik. Apsaug. no.4:37-39 '64.

1. Visasajungines neurochirurgu mokslines draugijos valdybos
narys.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLOMBYS, Leonas; PAREZIENE, A., red.

[Head injuries] Galvos traumos. Vilnius, Valstybine
politines ir moksline lit-ros leidykla, 1963. 30 p.
[In Lithuanian] (NIRA 17:7)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLUMESCH, J.

Nepticula szocsi spec. nov. (epidoptera). In German. p.423.
(Magyar Nemzeti Muzeum Termeszettudomanyi Muzeum Evkonyve, Vol. 7, 1956,
Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 9, Sept. 1957. Uncl.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

MOSOLOV, G., podpolkovnik, letchik-ispytatel'm Geroy Sovetskogo
Soyuzu; KUIMOV, A., inzh.

Maneuvering airplane control. Av.i kozm. 45 no.10:48-54 '62.
(MIRA 15:10)

(Airplanes—Controls)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLIMOV, S.

How much does each one of them eat? IUn.nat. no. 318-9 Nr 163.
(MIRA 16:4)

(Food habits)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUMOV, S.K.

Reproduction cycle of the Black Sea dolphin *Dolphinus delphis*
ponticus Barab. Trudy Inst. okean. 8:206-219 '54. (MLRA 7:11)
(Black Sea--Dolphins) (Dolphins--Black Sea)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

RASS, T.S., redaktor; KANANOVSKIY, A.G., redaktor; LIUDOV, S.I.,
redaktor; MAKAROV, B.M., redaktor; POLYAKOVA, T.V., tekhnicheskiy
redaktor.

[Geographical distribution of fishes and other commercial animals
of the Okhotsk and Bering Seas] Geograficheskoe raspredelenie ryb
i drugikh promyshlenniykh zhivotnykh Ochotskogo i Beringova morei.
Moskva, Izd-vo Akademii nauk SSSR, 1955. 115 p. (Akademiya nauk
SSSR, Institut okeanologii. Trudy, vol.14) (MLRA 9:2)

1. Akademiya nauk SSSR Institut okeanologii.
(Okhotsk, Sea of--Marine fauna) (Bering Sea--Marine fauna)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUMOV, S.K.

Distribution of whale stock. Trudy Inst. okean. no.18:7-27 '55.
(Whales) (MLRA 8:12)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLIMOV, S.K., kandidat biologicheskikh nauk.

Some results of the expedition in the Bering Sea and along the
Kurile Islands. Vest.AN SSSR 26 no.32-37 My '56. (MLRA 9:8)
(Bering Sea--Scientific expeditions)
(Kurile Islands--Scientifuc expeditions)

KUUMOV, S.K.

Coastal rookery of *Gallerhinus ursinus* and habitat of *Enhydra lutris* at the Kurile Islands, and a tentative determination of their respective number. Dokl. AN SSSR 117 no.1:153-156 N-D '57.
(MIRA 11:3)

1. Institut okeanologii AN SSSR. Predstavleno akademikom A.A.
Origor'yevym.
(Kurile Islands region--Sea otters)

KLUMOV, S.K.

Coastal habitat of *Zimotopias jubatus* at the Kurile Islands and a
tentative determination of their number. Dokl. AN 117 no.2:345-348
N '57. (MIRA 11:3)

1. Institut okeanologii Akademii nauk SSSR. Predstavleno akademikom
A.A. Grigor'yevym.
(Kurile Islands--Seals (Animals))

AUTHOR:

Klumov, S.K.

SOV-26-58-3-6/51

TITLE:

The Fate of the Whales (Uchast' kitov)

PERIODICAL:

Priroda, 1958, ⁴⁷Nr 3, pp 36-43 (USSR)

ABSTRACT:

A survey on the whaling situation, based on international sources, is given. A Soviet evaluation of the ratio of mature and immature fin whale bulls and cows observed near the Kurile Islands between 1951 and 1956 suggests a revision of present international agreements. A similar study on the humpbacks by E.S. Chuzhakina is discussed. According to these studies, the formerly accepted criteria of the length of the animal in connection with maturity should be changed. It is agreed that only strict protective measures will ensure the propagation of the fin, sperm, humpbacks, and other lesser whale species.

There are 5 photos, 2 charts, 2 tables, 2 graphs and 5 references, 1 of which is Soviet, 1 Swedish, 2 Norwegian and 1 American.

Card 17a

Institute of Oceanology AS USSR Moscow

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUMOV, S.K.

Can snakes hypnotize? IUn. nat. no.12:34 D '61. (MIRA 15:1)
(Snakes)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLUMOV, S.K.

Plankton and the feeding of baleen whales (Mystacoceti). Trydy
Inst. okean. 51:143-156 '61. (MIRA 14:6)
(Whales) (Zooplankton)

KLUMOV, S.K.

Are there any unknown large animals on the earth? Priroda 51
no. 8:66-75 Ag '62. (MIRA 15:9)
(Zoology)

KLUHOV, S.K.

Right whales of the Pacific Ocean. Trudy Inst. okean. 58:202-297
'62. (MIRA 1912)
(Pacific Ocean—Southern right whale)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUMOV, S.K., doktor biologicheskikh nauk

Monster from the De-la-Majks. IVn.nat. no.1:10-11 Ja '63.
(MIRA 16:1)
(Living fossils)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

TOLSTOV, A.N.; KLUMOV, S.K. (Moskva)

Relicts or present-day fauna and flora? Prioroda 52 no.3:89-90
'63. (MIRA 16:4)

1. Institut merslotovedeniya im. V.A.Obrucheva Akademii
stroitel'stva i arkhitektury SSSR, Moskva (for Tolstov).
(Serdongnokh region--Freshwater fauna)

KLUMOV, S.K. (Moskva)

What do we know about whales? Priroda 51 [i.e. 52] no. 5:124
'63. (MIRA 1616)
(Whales)

AKIMUSHKIN, Igor' Ivanovich; KLUMOV, S.K., otv. red.; GIDALEVICH,
A.M., red.izd-va; RYGINA, Yu.V., tekhn. red.

[Cephalopods of the seas of the U.S.S.R.] Golovonogie mol-
liuski morei SSSR. Moakva, Izd-vo AN SSSR, 1963. 233 p.
(MIRA 16:12)

(Cephalopoda)

KLUMOV, S.K.

Present whale stock in the world ocean and measures for its protection. Okhr. prir. i ozel. no.3:53-80 '60. (MIA 16,12)

1. Prednedatel' sektsii okhrany zverey TSentral'nogo soveta Vserossiyskogo obshchestva sodeystviya ohrane prirody i ozeneniyu naselennykh punktov.

KLUMOV, S.K.

Game animals of the Kurile Islands. Okhr. prir. i ozel. no.3:
9-29 '60. (MIRA 16:12)

1. Predsedatel' sektsii okhrany sverey TSentral'nogo soveta
Vserossiyskogo obshchestva sodeystviya okhrane prirody i
ozeleneniyu naselennykh punktov.

KLJUMOV, S.K.

Feeding habits and helminths of whalebone whales (Mystacoceti)
on the main whaling grounds of the world ocean. Trudy Inst,
okean. 71:94-194 '63. (MIRA 16:11)

MARAKOV, S.V. (Kirov); KLUMOV, S.X.

Natural monument or commercial species? Priroda № no.11:79-
84 '63. (MIRA 17:1)

1. Predsedatel' Sektsii okhrany sverey Vserossiyskogo
obshchestva okhrany prirody (for Klumov).

KLUMPAR, I.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H
Processes and Apparatuses of Chemical Technology.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67694.

Author : Beranek J., Klumpar I.

Inst : Not given.

Title : Discussion of Singer's Article "Theoretical Bases
of Processes Involving Pseudoliquification".

Orig Pub: Chem. prumysl, 1956, 6, No 3, 120-121.

Abstract: No abstract.

Card 1/1

KLUMPAR IVAN

CZECHOSLOVAKIA/Processes and Equipment for Chemical
Industries - Processes and Apparatus for Chemical
Technology

K-1

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33222

Author : Beranek Jaroslav, Klumper Ivan

Inst :

Title : Graphic Computation of the Rate of Drop of Spherical
Particles

Orig Pub : Chem. prumysl, 1956, 6, No 5, 210-212

Abstract : On the basis of the balance of forces acting upon a
spherical particle dropping within a fluid the following
equation was derived: $y = -2x \cdot q$ (I), where $y = \lg \frac{v}{g}$
 $= \lg f(Re)$; f -- coefficient of resistance; $x = \lg Re$;
 $q = \lg \left\{ \frac{(4gd/3)}{\nu^2} \cdot \frac{d^2 \Delta \rho}{f} \right\}$; g -- free
fall acceleration, d -- diameter of particle, $\Delta \rho$ --
difference in density between the material of the particle
and the fluid, ρ_f -- density of fluid, ν -- kinematic

Card 1/2

CZECHOSLOVAKIA/Processes and Equipment for Chemical
Industries. Processes and Apparatus for Chemical
Technology

K-1

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33222

viscosity of fluid. The abscissa of the point of intersection of the straight line defined by equation (I), with the curve $y = \varphi(x)$, which expresses, in $y - x$ coordinates, the correlation between the coefficient of resistance ψ and Re , determines the value of the number Re corresponding to the rate of drop of the particle. To facilitate computation a nomograph and a graph have been plotted and unified, on the combined use of which the rate of drop of the particle within the fluid can be determined, if the physical characteristics of particle and fluid are known. The described method of determining the rate of drop of a particle within a fluid is applicable to calculations of processes of fluidization, sedimentation, filtration and pneumatic transport.

Card 2/2

Properties of fluidized beds. I. Theories of fluidization. Judd, Baskins, and Jones Jr., *Trans. Inst. Chem. Engrs. Symp. Fluidization*, No. 10, 1957, p. 103.

Chem. Engg. 80, 1640-44 (1960).—Glass spheres, crushed stone particles, and porous catalyst of various sizes have been fluidized by air and water over a wide range of Reynolds numbers and over full range of porosities. The hitherto known relations for the pressure drop, the fluidization velocity, the carry-over velocity, and the expansion of the bed, which, in the case of expansion, may be reduced to four relatively simple forms, are not applicable. II. New theory of fluidization. 164, 1673-83.—A new theory of fluidization is presented; the dynamics of a particle is expressed by means of vector notation and dimensional analysis is used to obtain workable relations. The particle size is not characterized by its diam. but by its settling velocity; thus the usual shape factor and the porosity can be omitted in the theory. A new relation for the pressure drop is put forward. A generalized plot is given expressing the dependence of the ratio of the fluidized bed height to the superficial bed height on the ratio of the fluid velocity to the settling velocity; from this plot the velocities corresponding to fluidization, to carry-over, and to the expansion of the bed can be deduced. The theory agrees with the exptl. data of the authors and with published data.

KLUMPER IVAN

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Processes and Apparatus for Chemical Technology H-2

Abs Jour : Ref. Zhur. - Khimiya, No.2, 1958, No. 4853

Author : Beranek Jaroslav, Klumper Ivan

Inst : Not Given

Title : Hydrodynamic Characteristics of Fluidized Layer. Part II. New Theory of Fluidization.

Orig Pub : Chem. listy, 1956, 50, No 11, 1673-1682

Abstract : The new theory of computation of the fluidization process has been evolved on the basis of vectorial expression of hydrodynamic forces acting upon the particles, and of the theory of similitude, and it has been substantiated by experimental results of the authors and of other

Card : 1/3

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Processes and Apparatus for Chemical Technology H-2
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723220003-2

Abs Jour : Ref. Zhur. - Khimiya, No.2, 1958, No. 4853

Abstract : researchers. The deductions relate to a fluidized layer in which no intake and no withdrawal of particles occur. The theory is predicated upon the velocity of descent of the particles, in accordance with which dimensions and shape of the particle are characterized. On utilization of the velocity of descent of the particle, new equations are proposed for the calculation of pressure loss and for expressing the Reynolds criterion; these equations do not contain the linear dimension of the particle. A general graph is given to show the correlation between depth ratio of fluidized and stagnant layers, and the ratio of flow velocity to velocity of descent; from this graph it is

Card : 2/3

KLUMPAR, IVAN

REDACTED. Yaroslav KLUMPAR, Ivan.

Use of a catalyst in a suspended bed in the oxidation of sulfur dioxide; criticism on the article. Khim. prom. no.1:42-43 Ja-F '57. (MLIA 10:4)

1. Nauchno-issledovatel'skiy institut organicheskikh sintezov, Pardubice-Kybitvi, Cheskoslovakaya Respublika.
(Fluidization) (Sulfur dioxide) (Oxidation)

KLUMPAR, I.

Fluidized catalytic reactors and their computation. [Abstract] [Chem. & Process Eng., 1964, 82, No. 1, p. 67-69 (1967).] A method of computation is proposed on the basis of terminal velocity of the catalytic particles. The velocity can be deduced from the wt. of individual particles by means of a general plot of the dependence of 3 dimensional parameters which contain also the $d_{4,5}$ (the fluid and the particle) and the viscosity of the fluid. For the entrainment of particles, the initial and crit. velocities and the expansion ratio as a function of fluid velocity can be computed from the plot representing the dependence of the fluid and entrained bed heights upon the ratio of fluid velocity to terminal velocity. A general term for the pressure drop is given. The application of the method is given by three examples. — A. Hafetz

SRNSKY, Vladimir; NOVOSAD, Zdenek; PROCHAZKA, Jaromir; KLUMPAR, Ivan

Pilot plant production of the synthetic ethyl alcohol in Czechoslovakia.
Part 1: Direct hydration. Chem prum 13 no.1:12-14 Ja '63.

1. S.U.Chemoprojekt, Praha (for Srnsky and Novosad). 2. Chemicke
zavody CSSP, Zalusí (for Prochazka). 3. Zavody Vitezneho unora,
projekcni kancelar, Praha (for Klumpar).

KLUMPAR, Ivan; KOCHMAN, Oldrich; CIVRNÝ, Zdenek; PROCHAZKA, Jaromír

Czecholovak pilot plant production of the synthetic ethanol. Pt.2.
Chem prum 13 no.3:117-122 Mr '63.

1. Zavody Vitezneho unora, projektoni kancelar, Praha (for Klumper
and Kochman). 2. Chemické zavody ČSSR, Záluží (for Civrný and Prochazka).

KLUMPAR, Ivan; KOCHAN, Oldrich; CIVRNÝ, Zdenek; PRACHATKA, Jaromír

Czechoslovak pilot plant production of synthetic ethyl alcohol. Pt.3. Chem prum 13 no.5:225-230 My '63.

1. Zavody Vitesneho unora, projektni kancelar, Praha
(for Klumper and Kochan).
2. Chemicke zavody Ceskoslovensko-sovetskeho pratelstvi,
Vyzkumny ustav pro chemicke vyuuziti uhli, Zaluzi (for Civrný
and Prachatka).

KLUMPAR, Ivan

Difficulty in expressing mass flow. Chem prum 13 no. 6:307-
308 Je '63.

1. Zavody Viteznho unora, Hradec Kralove, projekce Praha.

HABAL, Jaroslav; KLUMPAR, Ivan

Pilot plant measurement of the reaction heat. Chem
prum 14 no. 3: 124-128 Mr '64.

1. Zavod prumyslove automatizace National Enterprise
Prague, Pecky Branch (for Habal).
2. Zavod Vitezneho u dara National Enterprise Hradec
Kralove, Project Department, Prague (for Klumper).

KLUMPAR, Josef, inz.

Some information of the yellow oat-grass helminthiasis
caused by nematodes of *Anguina* sp. Rost výroba 9 no.6:
605-610 Je '63.

1. Ustřední Kontrolní a akusební ústav zemědělský, odbor
karantény a ochrany rostlin, Brno.

*Ca**IIA*

Polarographic studies of the denaturation and proteolytic cleavage of proteins. R. Beddoe and J. Klaproth. *Critiques. Librarium* 17, 231-241 (1971); *J. P. A.* 22, 9129. The action of protein reagent, cystine, model in buffered Cu salt soln. in producing a double wave in the polarogram is discussed. Increase of height of this double wave with concn. of protein tends to reach a limit. The action is primarily due to the catalytic reduction of H from the SH groups sacrificed to their coordination bond with Cu. S-S groups being reduced to SH at the dropping Hg cathode. Distinction between SH and S-S groups is made by adding indomethate, when the S-S group of cystine is inactivated and the polarographic effect removed, whereas the S-S group of cystine remains unchanged and the polarographic effect persists. Part of the S-S and SH groups of native protein model is masked and liberated when the mod. is denatured. It is confirmed that only the free protein S-S and SH groups react polarographically since the height of the protein double wave increases proportionally with added of alkali hydrosulfide. Denatured protein gives a considerable increase to the limiting height of the protein double wave. The height of protein wave is proportional to the concn. of protein mod. at the cathodic interface and when this is satd., no further increase in the double wave can take place. Denaturation liberates more active groups and the limit can increase. These methods based on the above principle are given for the estim. of the proteolytic activity of protein. R. C. P. A.

AD-11A METALLURGICAL LITERATURE CLASSIFICATION

64-372-2427

ECONOMICS

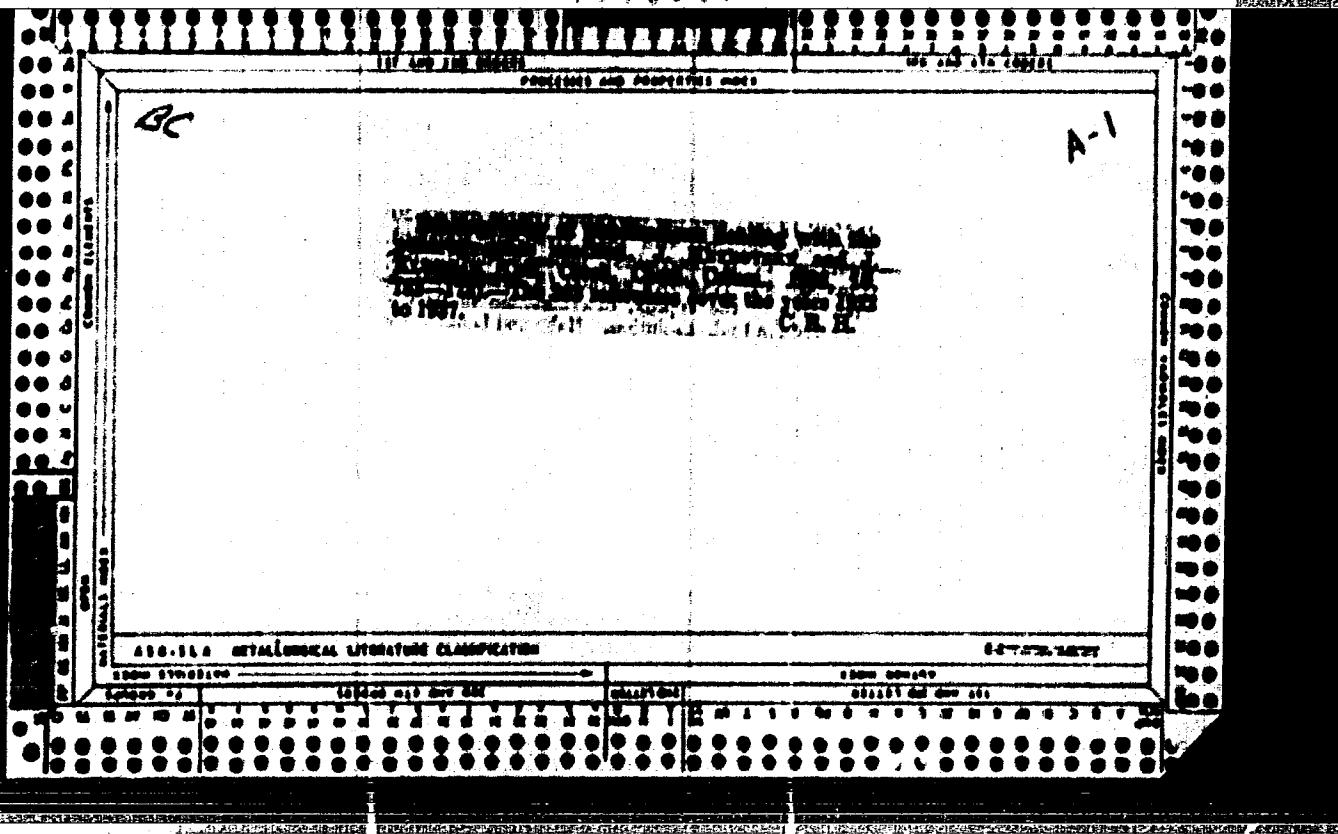
ECON. AD-11A

AD-11A

AD-11A

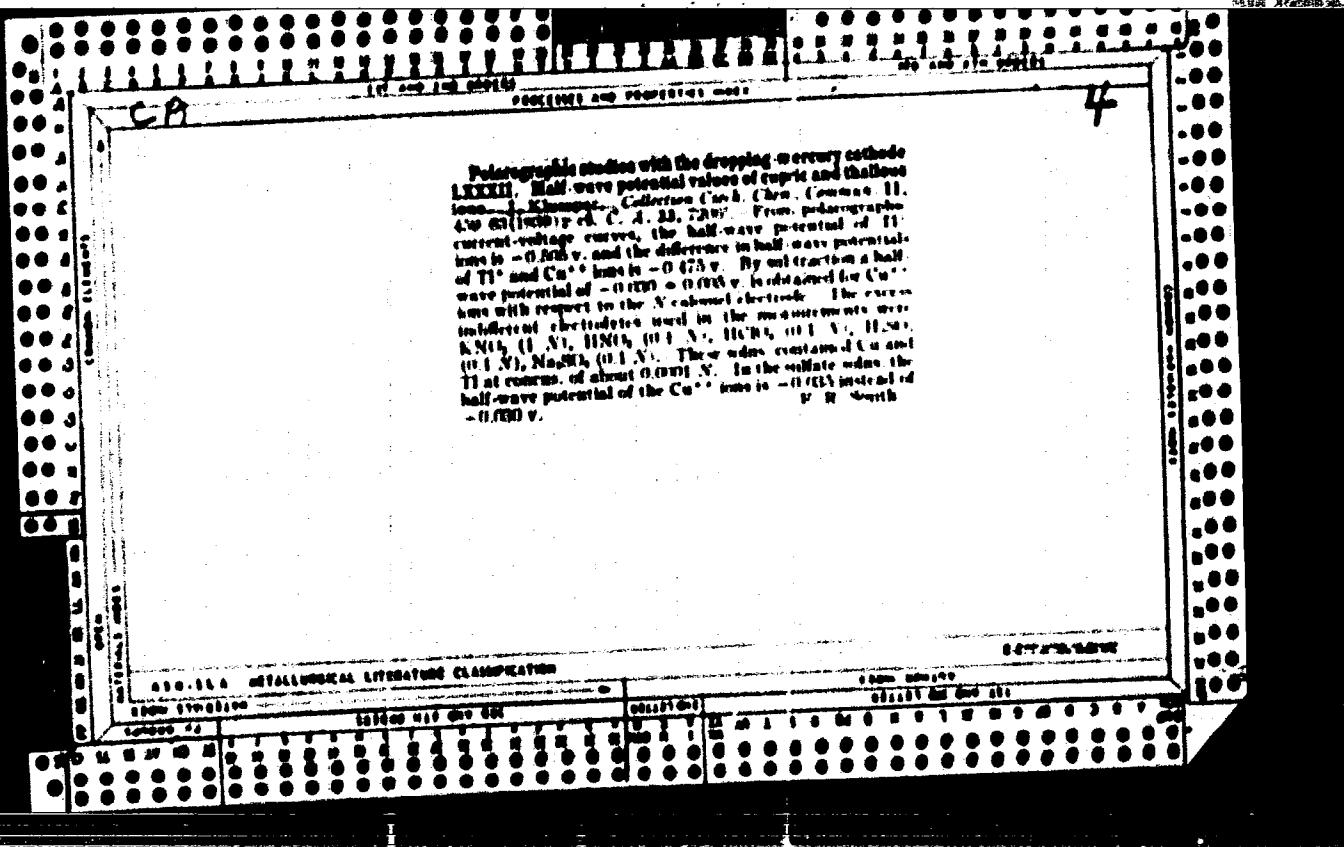
"APPROVED FOR RELEASE: 06/19/2000

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CIA-RDP86-00513R000723220003-2"



AEC
GTR

Radiocarbon

1. Emission of Photon from Thorium X Salts, by F. Neumann and J. Klumper, Kaiser, Inc.
p. 140-641, 1947.

... was observed to leak out of an unsealed tube containing thorium,
neptunium, (Ca) plutonium. (Ca)

CA

114

Quantitative relationships concerning the polarographic anodic curves caused by cytochrome b buffered acids submitted. J. Klemenc (Slovovia Hump., Prague, Czechoslovakia). Communs. 13, 11-20 (1960) (in English)—In the Co-catalyzed reaction of cytochrome b straight linear result is the reciprocal of the wave height plotted against either the reciprocal of the cytochrome b concentration (Co conc.) or against the reciprocal of the Co conc. (at const. cytochrome b conc.). These relationships are used to deduce the following empirical equation $A = C_1 [Co^{+3}]^2 / [D(Co^{+3}) + 1] \times [\log(h)] / ([C_2 \log(h) + 1])$, in which A is the max. height of the polarographic catalytic wave, C_1 , C_2 , and D are empirical constants, and the brackets indicate molar concns. This equation also describes the curves obtained with proteins by E. Jorba (C. A. 55, 7826) and thus it is an improvement over Jorba's equation (C. A. 54, 5761), in which A was given as a function of $[Co^{+3}]^{1/2}$. (Int. II. Metab.)

650-654 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLUMPAR, J.

Physical aspects of protection in Rtg and Ra therapy. Acta radiol.cancer
bohem. 4 no.5-6:152-158 30 D '49. (CML 19:3)

1. State Radiotherapeutical Institute, Praha, Bulovka, Department of
Physics (Director -- Docent J. Behounek, M.D.).

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUMPAR, J.

Intracavitary irradiation of the lymphatic tissue of the nasopharynx;
dosage. Acta radie. cancer. bohem. 6 no. 3-4:64-73 1952. (CIML 23:3)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLUMPAR, J.

Construction of a dosograph for rapid production of isodosic curves
in roentgenotherapy and radium therapy. Cesk.onkol. 1 no.3-4;268-
274 1954.

1. Onkologicky ustanov, Praha. RNDr J.Klumper, Praha VIII, Na Truhlarce
100.

(ROENTGEN RAYS, dosage,
appar.)

(RADIUM, dosage,
appar.)

KLUMPAR

med

Study of the metabolism of protein by the aid of radioactive isotopes. I. The incorporation of ^{35}S -diiodo-tyrosine into tissue and blood proteins in carcinoma with addition of inorganic iodine. J. Hradec, J. Šablik, V. Klesnar, and P. Šroubek (Oncological Inst., Prague). *Physia Bohemica*, 3, 198-205 (1954) [in English]. Normal and thyrodeectomized rats were given radioactive diiodo-tyrosine and NaI parenterally. Groups of animals were killed after 24 hrs. and the specific activity of the protein and non-protein fractions of the liver, spleen, kidney, thyroid gland, muscle, and blood plasma determined. In normal animals inorganic iodine is rapidly excreted. The greatest specific activity is found in the nonprotein fractions of the thyroid gland and kidney, and in the kidney protein. Diiodotyrosine is less rapidly excreted after administration to normal animals, and is fairly evenly distributed among all the organs. It is rapidly and extensively incorporated into the protein of the blood and organs.

J. L. Whitten

4

KLUMPAR, Josef

Evaluation of complex gamma fields in R units by a single exposure. Cesk. onkol. 1 no.1:20-29 1955.

1. Onkologicky ustav, Praha. Dr. J. Klumper, Praha-Bulovka,
Na Truhlarce 100.

(RADITIIONS, determination,

gamma rays, complex gamma fields in R units, determ.
by single film exposure)

KLUMPAR, Josef, Dr. (Praha VIII, Na Truhlarce 100)

Roentgenologic grid irradiation. Cesk.onkol. 2 no.2-3:143-149 1955.

1. Onkologicky ustav v Praze.
(RADIOTHERAPY,
grid technic)

KLUMPER - J.

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments, Methods of Measurement and Research C-2

Abs Jour : Ref Zhur - Fizika, No 10, 1958, No 22173

Author : Klumper J., Majerove M.
Inst : Dosimetric Division, Institute of Nuclear Physics, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.
Title : Effect of Amplification and Discrimination on the Form and Position of the Counter Characteristics of Geiger-Mueller Counters in Decade Scalars of Czechoslovak Manufacture

Orig Pub : Jaderná energie, 1957, 3, No 10, 304-305; discuss. 305-306, 320

Abstract : An investigation was made of the dependence of the form and position of counting width characteristics of Geiger-Mueller counters, used with decade scalar instruments of Czechoslovak manufacture. It turns out in these counters, at a high gain, there occurs a multiplication in the number of true pulses, so that when estimating the results it is possible to admit serious errors. Characteristics were obtained corresponding

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CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. C-2
Methods of Measurement and Research

Abs Jour : Ref Zhur - Fizika, No 10, 1958, No 22173

to double or four times the true value of the counting rate.
The causes of this phenomenon are examined. By comparative
measurements with a compound Ra (D+E+F) it was found that the
true number of processes is obtained when the counting
characteristic is low and the amplification is minimum.

Card : 2/2

Card : 1/1

KLJUPER - S.

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. C-2
Methods of Measurement and Research

Abs Jour & Ref Zhur - Fizika, No 11, 1958, No 24574

Author : Bohounek F., Klumper J., Koci J., Jirousek P.

Inst : Not Given

Title : Dosimetry of X-ray and Gamma Rays by Photographic Method

Orig Pub : Chokholal. fiz. zh., 1957, 7, No 5, 599-613

Abstract : See also Referat Zhur Fizika, 1958, No 8, 17390

Card : 1/1

21(7)

PHASE I BOOK EXPLOITATION CZECH/1252

Béhounek, Frantisek, Professor, Doctor, Corresponding Member, Czechoslovak Academy of Sciences; Bohum, Antonin, Doctor; Klumper, Josef, Doctor.

Radiologická fysika (Radiological Physics) 2d ed., rev. and enl. Prague, SWIL, 1958. 423 p. 2,200 copies printed.

Reviewer: Pernegr, Jaroslav, Doctor of Natural Sciences; Resp. Ed.: Truben, Milan; Tech. Ed.: Truben, Milan; Chief Ed. for Theoretical Literature: Cihák, Vlastimil, Engineer.

PURPOSE: This book is meant primarily for those working in the field of radioactivity, for university students, and for all engineers and technicians working in nuclear physics and radiation.

COVERAGE: This manual gives a simple introduction to nuclear physics and a general coverage of the field of radiation physics. The theory of radiology is given as well as the application of radiation techniques in industry, biology, chemistry, and medicine. There are 211 figures, numerous tables, and 52 references, 21 of which are Czech, 8 Soviet, 13 English, 7 German, and 3 French.

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AVAILABLE: Library of Congress

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KLUMPAK, J.; SKUPENOVA, A.; JIROSMK, P.

Relation of the size of the room for x-ray diagnosis to intensity of dispersed radiation. Cesk. rentg. 12 no. 4; 215-222 Dec 58.

1. Dosimetrické odd. ustanu jaderne fysiky CSAV. J. K., Ustav jader. fysiky
CSAV, Praha 8, Na Truhlarce 100.
(ROENTGENOGRAPHY)

relation of room size to intensity of dispersed radiation
(Cz)

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments.
Methods of Measurement and Research

C-

Abs Jour : Ref Zhur Fizika, No 3, 1960, 5195
Author : Klumper Josef, Majerova Miroslava, Jirousek Pavel
Inst : Dosimetricke oddeleni UJV-CSAV, Prague, Czechoslovakia
Title : Dosimetry of Radioactive Isotopes Using a 4π -Counter and
Comparison of the Results Obtained with Measurements made
with a G-M Counter
Orig Pub : Jaderna energie, 1959, 5, No 6, 190-193

Abstract : The authors describe the construction and give the basic
parameters of a flow-through 4π -counter, intended for the
measurement of radioactive isotopes. The counter consists
of two chambers, with individual anodes. Both chambers
are separated by a thin liner, on which is deposited the
measured radioactive compound. The anodes of the counter

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CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments.
Methods of Measurement and Research

C-

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723220003-2
Ref Zhur Fizika, No 3, 1960, 5195

are made of tungsten wire 0.05 mm in diameter. A brief
description is given of the influence of the liner on the
results of the measurements of the activity of the com-
pounds with different β -spectrum energy. The results
of the measurements are compared with the data obtained
with the aid of a GM counter with thin window. An ana-
lysis of the measurement errors is made.

Card 2/2

Determination of Ra concentration of radon, by method of scintillation measurement of electrodepositing decay products of radon. Josef Klumpp, Michalyn J. Lachout, and Jaroslav Janousek (Czech. Acad. Sci., Prague). *Federal ergie* 6, 40-5 (1960).—The method is based on a transfer of Ra, with 8% efficiency, from 10 l. of H₂O to 13-17 l. of Ra-free air (stored in a cylinder for over 4 weeks) in a sep. chamber, where Ra A, Ra B, and Ra C are collected on a target in an electrostatic field, and detd. by scintillation counting. The theoretical efficiency of electrodeposition is discussed. Many Ra-A atoms decay before they reach the target. An increase in the activity of the target with time is found. The sensitivity of the method, for a collection time of 4 days, is such that the natural background corresponds to 6.2×10^{-4} g. Ra/l. H₂O. H. Newcomb

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUMPKAR, J.

Dosimetry in radium therapy. Cesk. rentgenol. 16 no.1:9-17 F '62.
(RADIOMETR.)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

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Z/038/62/000/010/003/005
D267/D307

21.6000
AUTHORS:

Klumper, Josef and Majerová, Miroslava

TITLE:

Scintillation counting of aqueous solutions of beta emitters

PERIODICAL:

Jaderná energie, no. 10, 1962, 356-362

TEXT: The object of research was to develop a method of measurements in which the dependence of the detection efficiency of the apparatus on the energy of beta emission would be as small as possible. In the case of small concentrations an apparatus with the least background is the most advantageous. Whilst discussing the use of homogeneous mixtures (solutions) the authors adduce the data thus far available, and present in the form of tables their own results dealing with (1) the relative detection efficiency of scintillation solutions with p-dioxan for various water contents and various working potentials, and (2) the dependence of the detection efficiency of solutions with 11.1 and 33.3% of H₂O on the energy of beta emission. The use of scintillation solutions is ✓

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CIA-RDP86-00513R000723220003-2

Scintillation counting ...

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advantageous in the case of aqueous solutions of a relatively high activity, so as to make it possible to work with > 1 ml of solution sample and > 10 ml of the scintillator. As regards the use of heterogeneous mixtures (gel-like or solid scintillators) the results obtained by the authors are not reproducible. Both methods are suitable only for concentrations in excess of 10⁻⁷ c/l: moreover, their detection efficiency is highly dependent on the energy of radiation, and large volumes of the scintillator produce a high background noise. To avoid these disadvantages it is recommended to work with evaporated residues. The authors determined the photon detection efficiency of the flat (thin) organic scintillator developed by R.V. Semova (Kernenergie, v. 2, 1959, 663-664). This scintillator, containing more than 90% of terphenyl, was found to give better results than other organic scintillators: the minimum amount of radioactive substance, that can be easily detected with this scintillator in conjunction with a simple electronic apparatus is about 5 x 10⁻¹¹ c (when the probe is not protected with Pb). The new scintillator is characterized by a very small sensitivity ✓

Card 2/3

Scintillation counting ...

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D267/D307

to gamma background, and its beta detection efficiency is independent of the beta radiation energy. There are 7 figures and 3 tables. The most important English-language reference is R.B. Owen, 'Scintillation counters', Nuclear Power, v. 5, no. 54, 1960, 82-86.

ASSOCIATION: Radiologická dosimetrie ÚJV ČSAV (Radiological Dosimetry, ÚJV ČSAV)

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

MANN, W.B.; KLIMPAR, J., RNDr. [translator]

Preparation and maintenance of standards of radioactivity. Jaderná
energie 3 no.5:151-155 My '57.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLUMPAR, J., RNDr.; MAJEROVA, M., RNDr.

Effect of amplification and discrimination on the shape and height of curves in Geiger-Muller counters made in Czechoslovakia. Jaderna energie 3 no.10:304-306 0 157.

1. Dosimetrické oddelení, Ustav jaderné fyziky, Československá akademie věd, Praha.

KLIMPAR, Josef; MAJEROVA, Miroslava; JIROUSEK, Pavel

Determining the low concentration of radium in water by scintillation counting the electrodeposited decay products of radon. Radon energie 6 no.12:404-408 D '60.

1. Dosimetrické oddelení, Ustav jaderného výzkumu, Československá akademie věd.

KLUMPAR, Josef; MAJEROVA, Miroslava

Scintillation measurement of aqueous solutions of beta
radiators. Jaderna energie 8 no.10:256-262 O '62.

1. Radiologicka dosimetrie, Ustav jaderneho vynikumu,
Ceskoslovenska akademie ved.

44484

0/025/62/000/010/004/007
B164/B102

2/6000

AUTHORS: Klumper, J., Majerová, M.

TITLE: Scintillation measurements of β -emitters in their aqueous solutions

PERIODICAL: Kernenergie, nos. 10-11, 1962, 774-781

TEXT: This paper, based on available publications, discusses methods of using homogeneous and heterogeneous mixtures of the solution with the scintillator, applicable both to scintillation measurements of aqueous solutions of β -emitters and to measurement of the evaporation residues. The energy dependence of efficiency and the background effects are considered. Details of measurements made by the authors are reported. For a homogeneous mixture, the effect of dissolved salt (Na_2CO_3) on the limit beyond which it is impossible to mix the systems water/toluene/methanol and water/p-dioxane is investigated (P. N. Hayes, D. G. Ott, LASL Contract #7405-Eng. 36). A Soviet 43Y-19M (FEU-19M) photomultiplier is used to measure the relative efficiency of scintillation solutions containing p-dioxane at various water contents and the dependence on the β -energies of certain

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Scintillation measurements of...

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B164/B102

radionuclides at various potentials. The results show that the mixing method can be used for measuring radioactivities higher than 10^{-10} c in small volumes. The flat type of scintillator composed of p-terphenyl with up to 40 mg/cm^2 developed by R. V. Semova (Atomn. Energ. 5, 1958) is investigated as regards its applicability to measuring residues of evaporation of efficiency for photons (0.3-2%), the effect of the surface weight on background pulses and the ratio of background pulse density to efficiency for β -energies of the radionuclides Ca⁴⁵, Co⁶⁰, Tl²⁰⁴, Sr⁹⁰+Y⁹⁰ at various potentials of the photomultiplier. A commercial scintillator is compared with the β -scintillator. A terphenyl scintillator of 15 mg/cm^2 is particularly advantageous since it permits of detecting activities as low as $5 \cdot 10^{-11}$ c. Comparative results from measurements of the relative efficiency referred to p-terphenyl are given for 1,4 diphenyl butadiene, POPOP, 2,5 diphenyl oxazol, and α -naphthyl-phenyl oxazol. There are 7 figures and 3 tables.

ASSOCIATION: Dosimetrische Abteilung des Instituts für Kernforschung der Tschechoslowakischen Akademie der Wissenschaft (Dosimetric Department of the Nuclear Research Institute, Academy of Sciences CSSR)

Card 2/3

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

Scintillation measurements of...

0/025/62/000/010/004/007
B164/B102

SUBMITTED: March 2, 1962

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2"

KLUMPAR, Josef; MAJEROVA, Miroslava

Origin of errors in sample preparation for absolute calibration
of beta radiating solutions by 4π counters. Jaderna energie '9
no.8:258-264 Ag '63.

1. Radiologicka dizimetris, Ustav jaderneho vyzkumu, Cesko-
slovenska akademie ved.

KLUMPAR, Josef; MAJEROVA, Miroslava

Correction of absorption in the carrier film during beta
emitter standardization in the 4γ -counter. Jaderna energie
9 no.10:315-318 0 '63.

1. Radiologicka dosimetrie, Ustav jaderneho vyzkumu, Ceskoslo-
venska akademie ved, Praha.

KLUMPAR, Josef; MAJEROVA, Miroslava

Self-absorption of Sr⁹⁰(+T⁹⁰) beta radiation in the preparations with surface density up to 28 mg/cm² measured with a 4 π -counter. Jaderna energie 10 no. 5:168-171 My '64.

1. Radiological Dosimetry, Institute of Nuclear Research, Czechoslovak Academy of Sciences, Prague.

L 5113-66 EWT(m)

SOURCE CODE: CZ/0038/65/011/007/0256/0259

26 D

ACC NR: AP6000253

AUTHOR: Klumper, Josef / Klumper, Ya.

ORG: Radiological Dosimetry Institute, JUJ CSAV, Prague (Radiologicka dosimetrie
UJV CSAV)

TITLE: Some sources of errors in low activity measurements

SOURCE: Jaderna energie, v. 11, no. 7, 1965, 256-259

TCPIC TAGS: error statistics, radioactivity measurement, hydrology, water pollution,
hygiene, healthABSTRACT: Standard measurements of total radioactivity of surface or rain water are
discussed from the point of view of accuracy needed for purposes of health physics.
The sources of error in sample manipulation and in the measurement proper were inves-
tigated. The unified evaluation requires the standardization of measurement conditions.
The work was presented by Fr. Behounek. Orig. art. has: 1 table. [W]

SUB CODE: NP, GO / SUB1 DATE1: none / ORIG REF: 005 / SOV REP: 001

UDC: 537.12.082

Klumper, V.

Welding chains by melting. p. 204. HTNIK. (Ministerstvo hutniho
prumyslu a rudnych dolu) Praha. Vol. 4, no. 7, July 1954.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

KLUMPAR, Vladimir, inz.

Present conditions of the production of supplementary materials.
Zvar sbor 9 no.4:409-414 '60

1. Zálezárný Antonina Zapotockeho, Vamberk.

KLUNKO, S. K.

USSR/Farm Animals - Cattle

Q

Abs Jour : Ref Zhur - Biol., No 15, 1958, 69309

Author : Kalashnikov, A.P., Klunko, S.K.

Inst :

Title : Utilization of Lupine as Feed For Cattle

Orig Pub : Zhivotnovodstvo, 1957, No 5, 43-46

Abstract : Experiments revealed the high nutritional qualities of lupine when used in a green form and in a form of silage as feed for cattle. Data on the crop capacity of fodder lupine, accumulation of nutrient substances in it according to phases of development, chemical composition, and results of feeding it to dairy cows are given.

Card 1/1

- 32 -

KLUADOV, S.K.

KLUPI, F. B.

CA

23

Coating on paper. U. L. Minkov, P. N. Klupi and
V. V. Matyshev. Russ. 88,174, Oct. 21, 1960. Paper in
the finished state or during its manuf. is dried with an eq.
soln. of blood albumin concg., phenol-formaldehyde and formalde-
hyde, then coated with a layer of nitro lacquer.

AIA-SEA METALLURGICAL LITERATURE CLASSIFICATION

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63394

Author: Klupt, F. B., Perekal'skiy, N. P.

Institution: None

Title: Procedure for Producing a New Type of Colored Granitol with Reinforced Paper Base and Aqueous Dye-Albumin Coating

Original

Periodical: Tr. Leningr. tekhnol. in-ta im. V. M. Molotova, 1955, No 3, 161-167

Abstract: A recipe is given as well as the technological conditions of manufacture of a new type of colored granitol (G) with reinforced paper base and aqueous-dye albumin coating, and also the physicomechanical indexes of G. G is used as facing material.

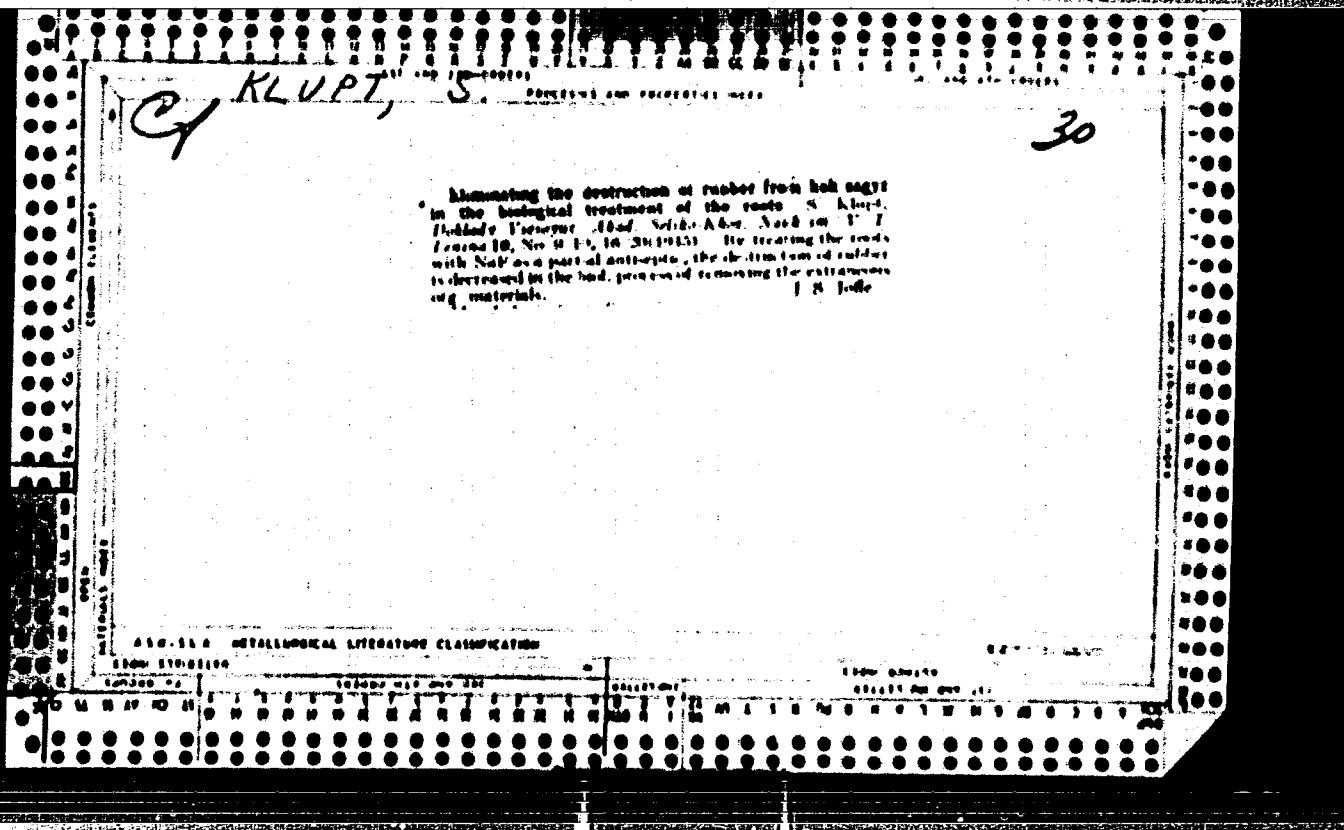
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KLUPTI, I. Bess-starshiy prepodavatel'; GRIGOR'YEV, G.P., kand.tekhn.nauk;
DOBROBORSKAYA, R.Yu., mladshiy nauchnyy sotrudnik

New types of suede, velour and velvet materials manufactured with
a paper base. Trudy LTITSEP no.11:141-151 '62. (MIRA 16'10)

KLUKT, F. G.

Some theoretical premises concerning the treatment of woodpulp
with protein substances for the modification of its properties,
Trudy LTITSBP no. J212/2-257 '64. (MIRA 2818)



"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUPT, S. Ye.

"Variation of the chemical composition of the retting liquor during the course of flax-retting," Tr. Vses. Inst. s.-kh. mikrobiol., 7, No 2, p 54, 1935.

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KLUFT, S. Ye.

"Contribution to the Biochemistry of flax-retting," Tr. Vses. Inst. s.-kh. mikrobiol.,
7, No 1, p 48, 1936.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220003-2

KLUPT, S. Ye.

"Separation of fiber from bast-fiber plants by bacterial ferments," Mikrobiologiya, 6,
12, 1937.

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ARISTOVSKAYA, T.V.; VLADIMIRSKAYA, M.Ye.; GOLIERBAKH, M.M.; KATANSKAYA,
P.A.; KASHKIN, P.N.; KLUPT, S.Ya.; LOZINA-LOZINSKIY, L.K.; MORKINA,
S.P.; RUMYANTSEVA, V.M.; SELIBER, G.L., prof. [deceased]; SKALON,
I.S.; SKORODUMOVA, A.M.; KHETAGUROVA, F.V.; CHASTUKHIN, V.Ya.;
PARSADANOVA, K.G., red.; GARINA, T.D., takhn. red.

[Comprehensive laboratory manual on microbiology] Bol'shoi praktikum po mikrobiologii. [By] T.V. Aristovskaya i dr. Pod obshchei
red. G.L. Selibera. Moskva, Vysshiaia shkola, 1962. 490 p.

(MIRA 16:3)

(MICROBIOLOGY—LABORATORY MANUALS)

KLUPT, Veniamin Solmonovich
Economic Geography

DECEASED
c. '64

1964

KLURPEL'D, A.I., inzh.; KORNEYKO, V.N., inzh.; RULLIT, R.A., inzh.;
SAMORODSKIY, L.P., inzh.; FRIDMAN, A.Ye., inzh.; SHCHERBINA,
S.A., inzh.

Control system of a PVK-150 turbine and some special features
of its adjustment. Teploenergetika 11 no. 1:67-72 Ja '64.
(MIRA 17:5)

1. Khar'kovskiy turbinnyy zavod im. S.M.Kirova.

LEMERYCH, Stanislaw; KLUK, Cezary

Frequency, indications & results of Cesarean sections in the years
1947-1956 8 Dec 58.

1. (Z Wojewodzkiego Szpitala Specjalistycznego Ginekologiczno- Poloz-
niczego w Opolu; dyrektor: dr med. S. Messor). Adres: Opole, ul. Rymonta
8, Woj. Szpital Spec. Gin-Pologn.
(CESARIAN SECTION, statist.
in Poland (Pol))

LEMERYCH, Stanislaw; KIJS, Cezary

Use of the vacuum extractor in obstetrics. Ginek. pol. 35 no.1:
45-50 Ja-F'64

1. Z Wojewodzkiego Szpitala Specjalistycznego Położniczo
Ginekologicznego w Opolu; dyrektor szpitala: dr.med.
S.Mosor [deceased]

KLUS, Cezary; LEMBRYCH, Stanislaw

The course of labor after cesarean section. Polski tygod. lek. 16
nr. 8:296-300 20 F '61.

1. Z Wojewódzkiego Szpitala Specjalistycznego Ginekologiczno-
Pediatrycznego w Opolu; dyrektor: dr med. S. Messer.

(CESAREAN SECTION) (LABOR)

MÜLNER, Ludwik, doc. dr inż.; KLUS, Roman, dr ins.

A new method of computing of the contraction fits of toothed
wheel rims. Przegl mech 21 no.15:463-466 10 Ag '62.

1. Politechnika Śląska, Gliwice.